



AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Canceled).

Claim 2 (Currently Amended): ~~[[The]]~~ A radiation detector ~~according to Claim 1,~~
comprising:

a main body; and

a radiation detection probe connected to the main body, the radiation detection probe

including:

a radiation detection element for detecting radiation transmitted through the distal end of
the radiation detection probe;

a light-emitting device for emitting pointer light toward the distal end of the radiation
detection probe; and

a first window provided on the distal end of the radiation detection probe to transmit the
pointer light;

wherein

the radiation detection element is disposed between the distal end of the radiation
detection probe and the light-emitting device,

the radiation detection element has a second window for transmitting the pointer light,
and

the pointer light passes through the second window and then the first window to be emitted from the radiation detection probe.

Claim 3 (Original): The radiation detector according to Claim 2, wherein the radiation detection element is divided into a plurality of element pieces which are arranged to surround the second window.

Claim 4 (Currently Amended): The radiation detector according to ~~Claim 1~~ Claim 2, wherein the radiation detection probe further includes a condenser lens provided in the first window.

Claim 5 (Currently Amended): The radiation detector according to ~~Claim 1~~ Claim 2, further comprising an optical guide for guiding the pointer light from the light-emitting device to the first window.

Claim 6 (Original): The radiation detector according to Claim 5, wherein the optical guide has a pipe extending from the light-emitting device to the first window.

Claim 7 (Original): The radiation detector according to Claim 6, wherein an optical fiber is placed in the pipe.

Claim 8 (Currently Amended): The radiation detector according to Claim 5, wherein the radiation detection probe further includes ~~[[an]]~~ a light-blocking cover which covers the light-emitting device, and the optical guide has a through-hole provided in the light-blocking cover.

Claim 9 (Currently Amended): The radiation detector according to ~~Claim 1~~ Claim 2, wherein the radiation detection probe further includes a collimator disposed between the distal end of the radiation detection probe and the radiation detection element to collimate the radiation.

Claim 10 (Original): The radiation detector according to Claim 9, wherein the first window is placed on the center axis of the collimator.

Claim 11 (Currently Amended): ~~[[The]]~~ A radiation detector according to ~~Claim 1~~, comprising:

a main body; and

a radiation detection probe connected to the main body, the radiation detection probe

including:

a radiation detection element for detecting radiation transmitted through the distal end of the radiation detection probe;

a light-emitting device for emitting pointer light toward the distal end of the radiation detection probe; and

a first window provided on the distal end of the radiation detection probe to transmit the pointer light;

wherein

the radiation detection probe further includes an input plate provided on the distal end of the radiation detection probe,

the first window is a through-hole provided in the input plate, and

the input plate blocks an electromagnetic wave having an energy of 1 keV or less.

Claim 12 (New): The radiation detector according to Claim 11, wherein

the radiation detection element is disposed between the distal end of the radiation detection probe and the light-emitting device,

the radiation detection element has a second window for transmitting the pointer light, and

the pointer light passes through the second window and then the first window to be emitted from the radiation detection probe.

Claim 13 (New): The radiation detector according to Claim 12, wherein

the radiation detection element is divided into a plurality of element pieces which are arranged to surround the second window.

Claim 14 (New): The radiation detector according to Claim 12, wherein the radiation detection probe further includes a condenser lens provided in the first window.

Claim 15 (New): The radiation detector according to Claim 12, further comprising an optical guide for guiding the pointer light from the light-emitting device to the first window.

Claim 16 (New): The radiation detector according to Claim 15, wherein the optical guide has a pipe extending from the light-emitting device to the first window.

Claim 17 (New): The radiation detector according to Claim 16, wherein an optical fiber is placed in the pipe.

Claim 18 (New): The radiation detector according to Claim 15, wherein the radiation detection probe further includes a light-blocking cover which covers the light-emitting device, and

the optical guide has a through-hole provided in the light-blocking cover.

Claim 19 (New): The radiation detector according to Claim 12, wherein the radiation detection probe further includes a collimator disposed between the distal end of the radiation detection probe and the radiation detection element to collimate the radiation.

Claim 20 (New): The radiation detector according to Claim 19, wherein the first window is placed on the center axis of the collimator.